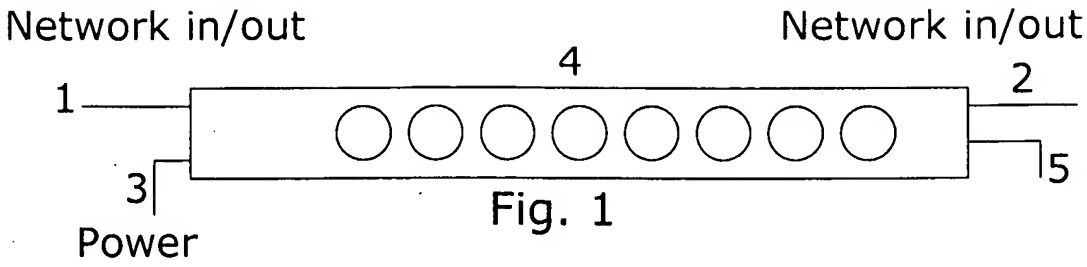

Network in/out
Network in/out
4
1
2
3
5
Power

Fig. 1

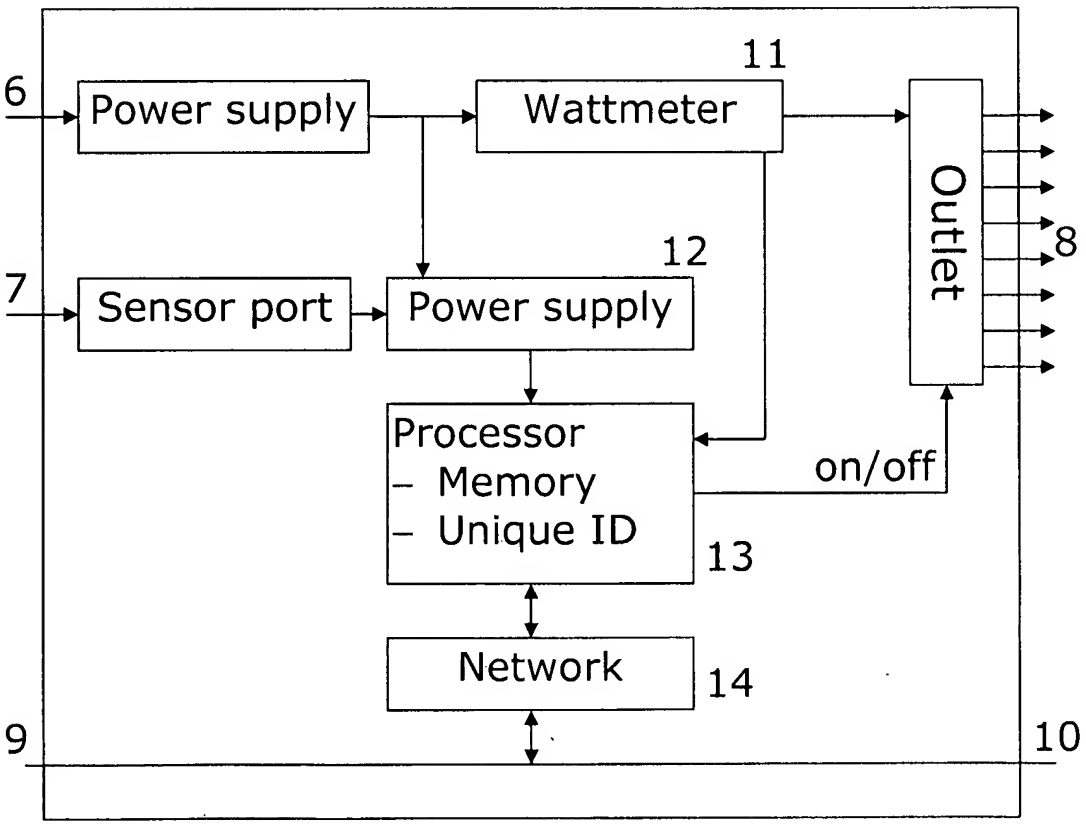

11
6
Power supply
Wattmeter
Outlet
8
12
7
Sensor port
Power supply
Processor
– Memory
– Unique ID
on/off
13
Network
14
9
10

Fig. 2

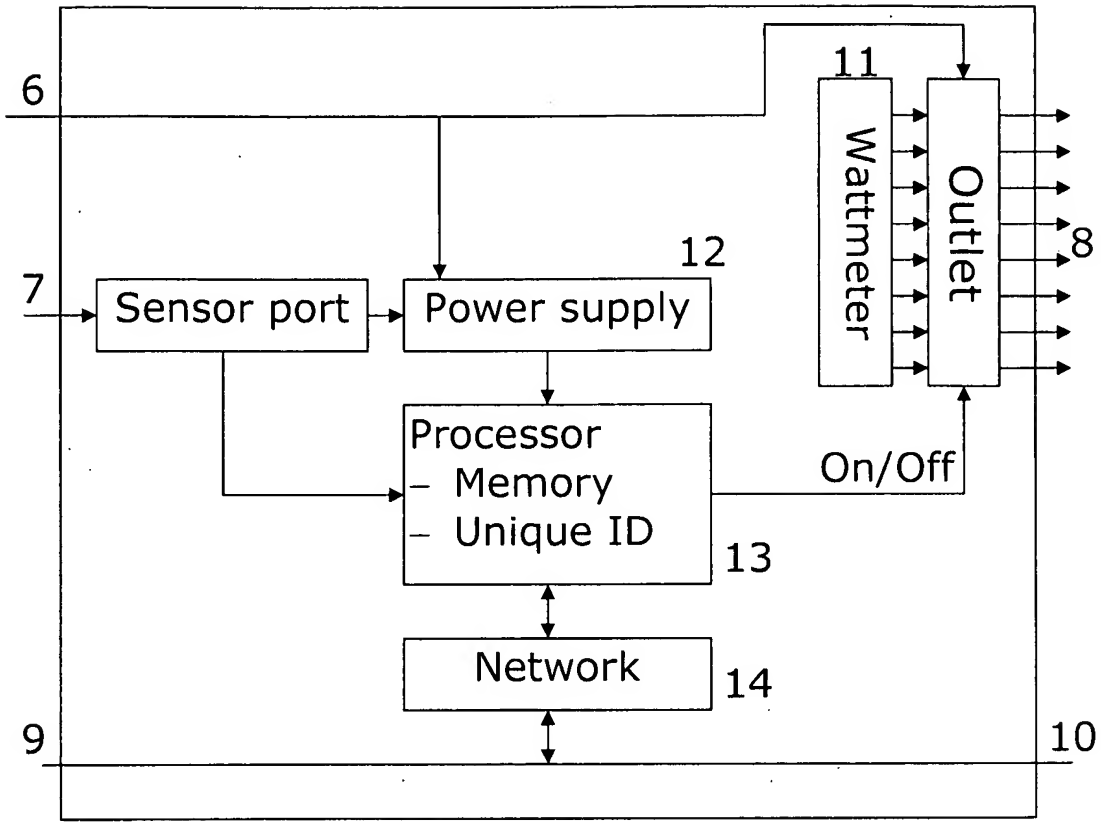


Fig. 2a

Fig. 3

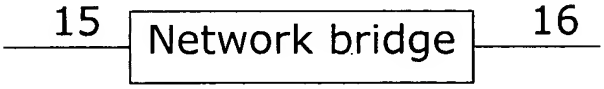


Fig. 4

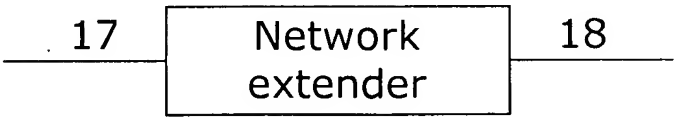
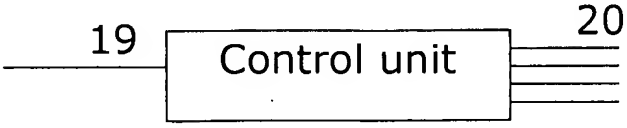


Fig. 5



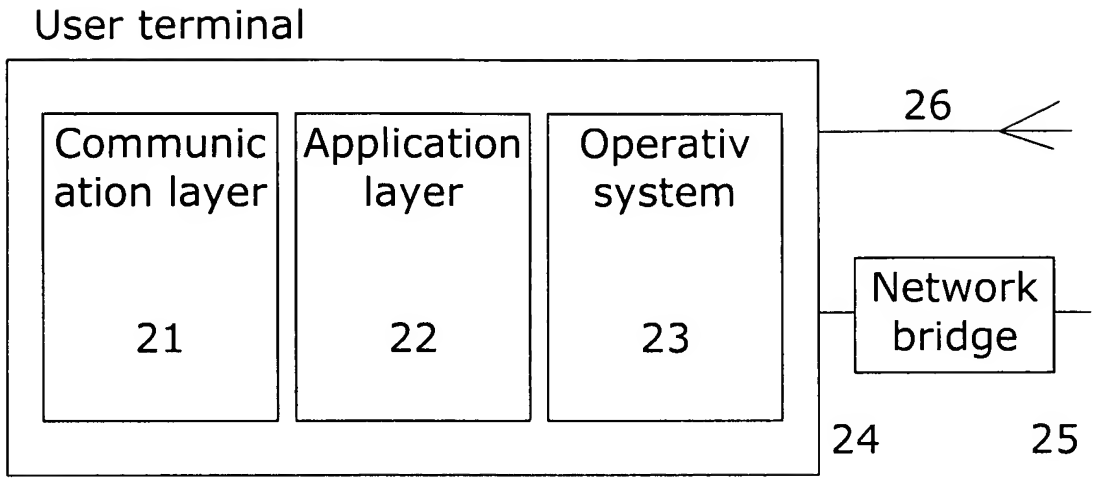
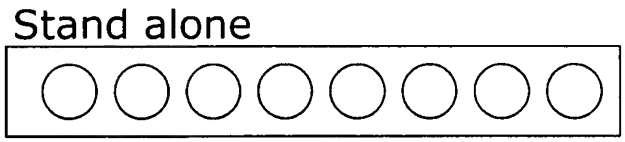


Fig. 6

Fig. 7



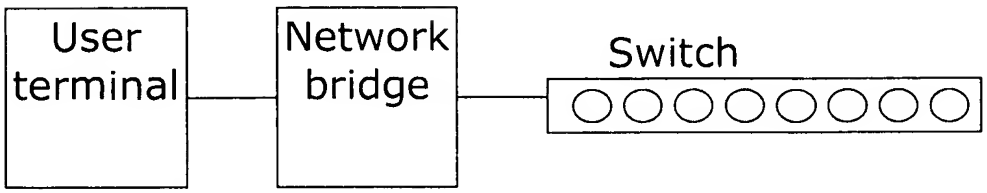


Fig. 8

Fig. 9

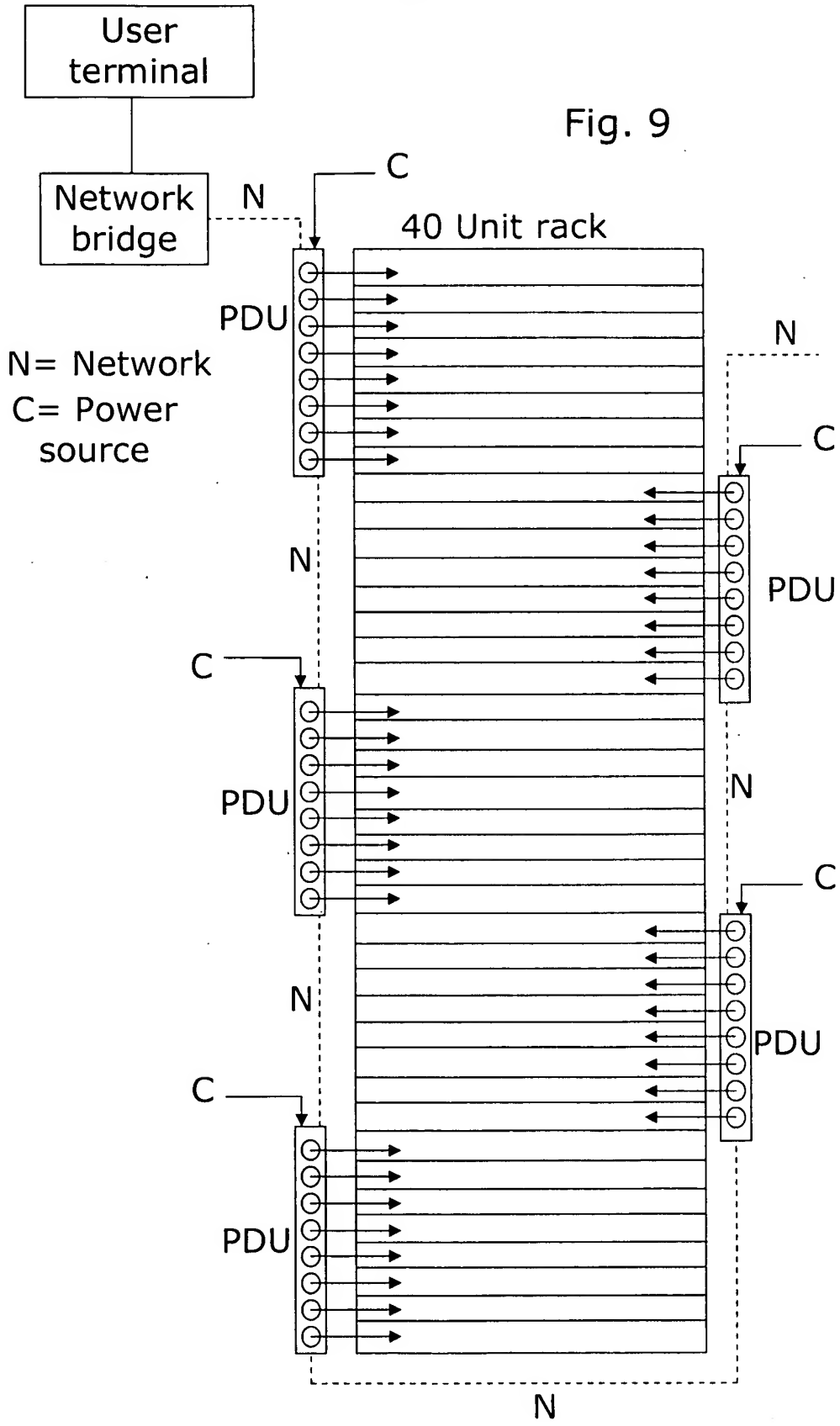

User terminal
Network bridge
N
C
40 Unit rack
PDU
N= Network
C= Power source
N
C
PDU
N
C
PDU
N
C
PDU
C
PDU
N

Fig. 10

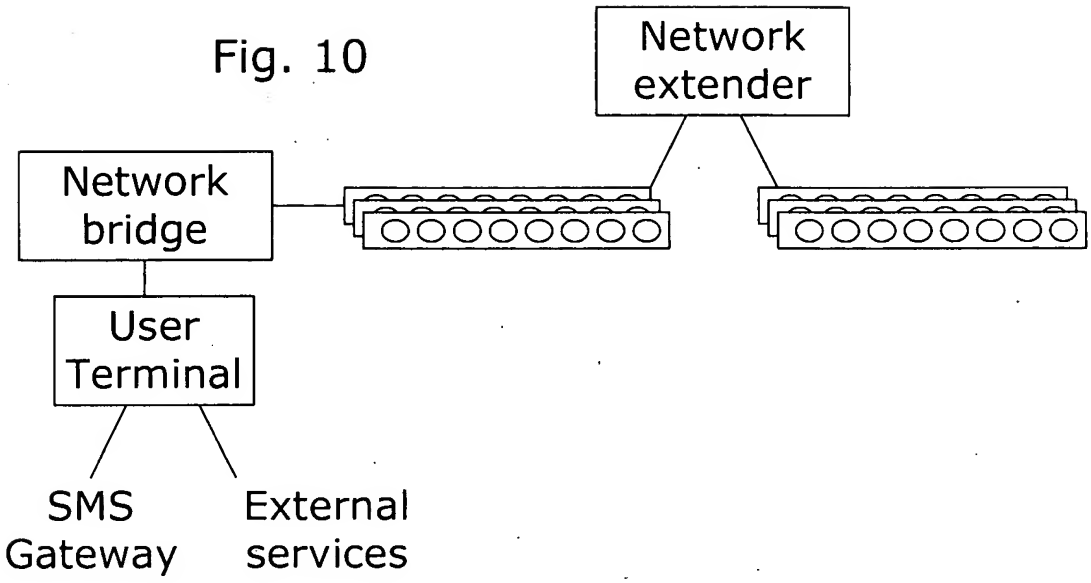

Network extender
Network bridge
User Terminal
SMS Gateway
External services

Fig. 11

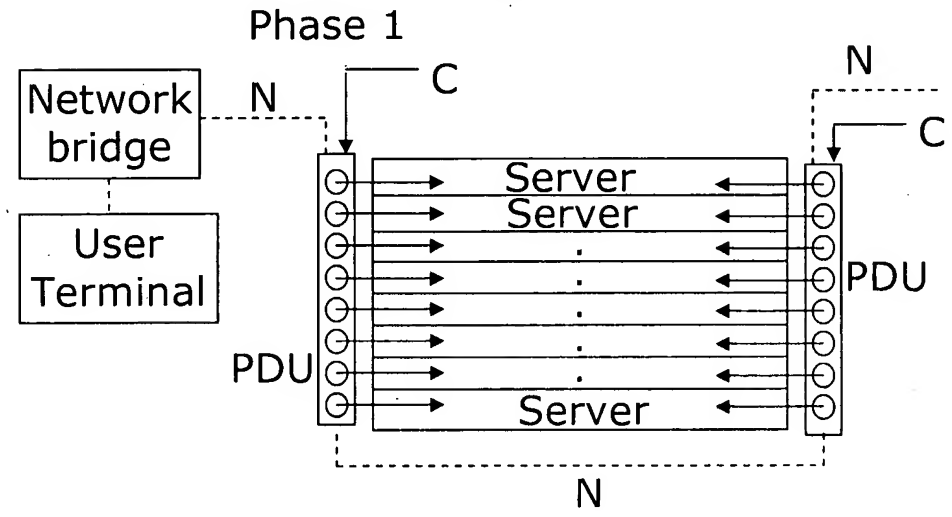

Phase 1
Network bridge
User Terminal
N
C
N
C
Server
Server
Server
PDU
PDU
N

Fig. 12

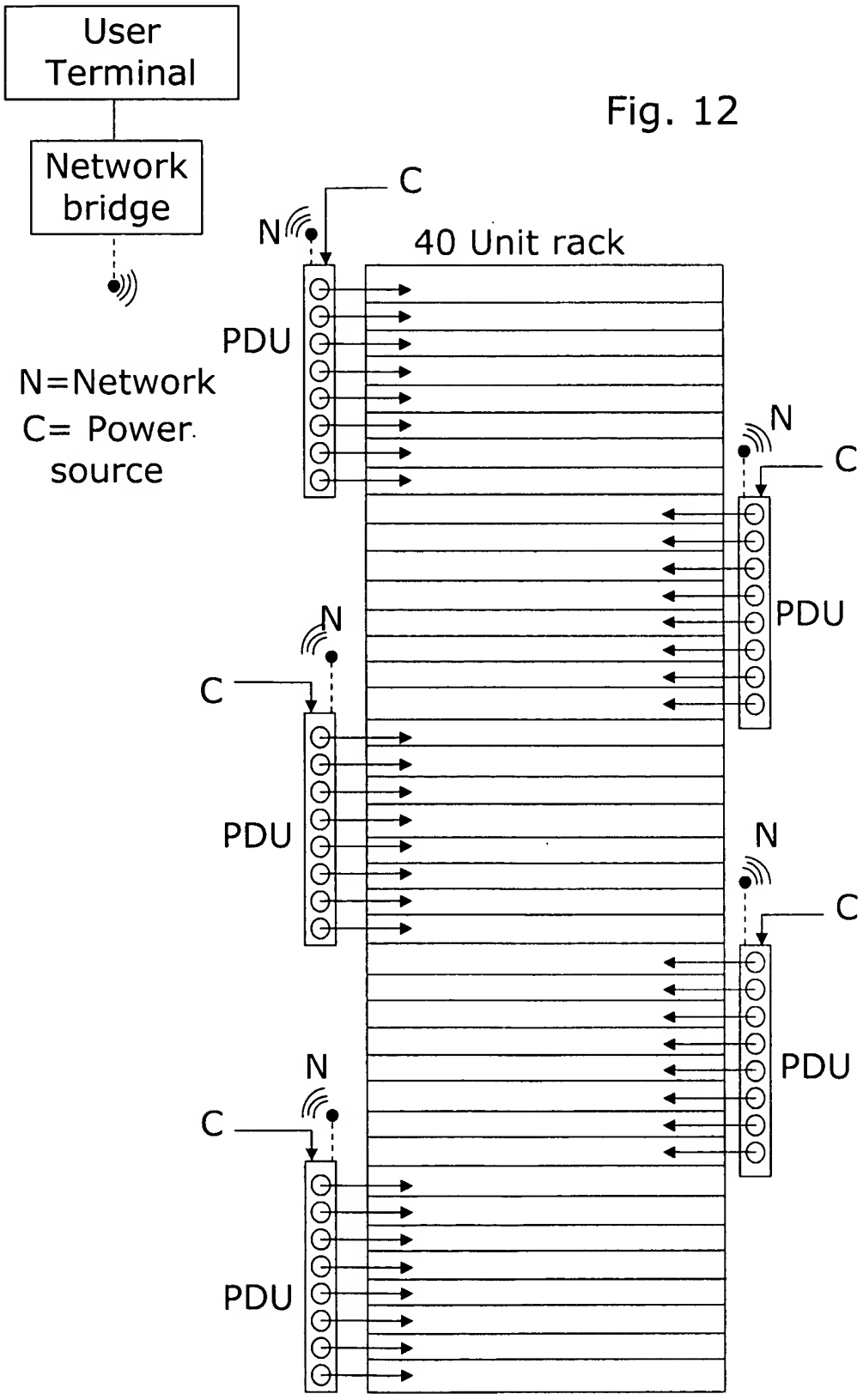
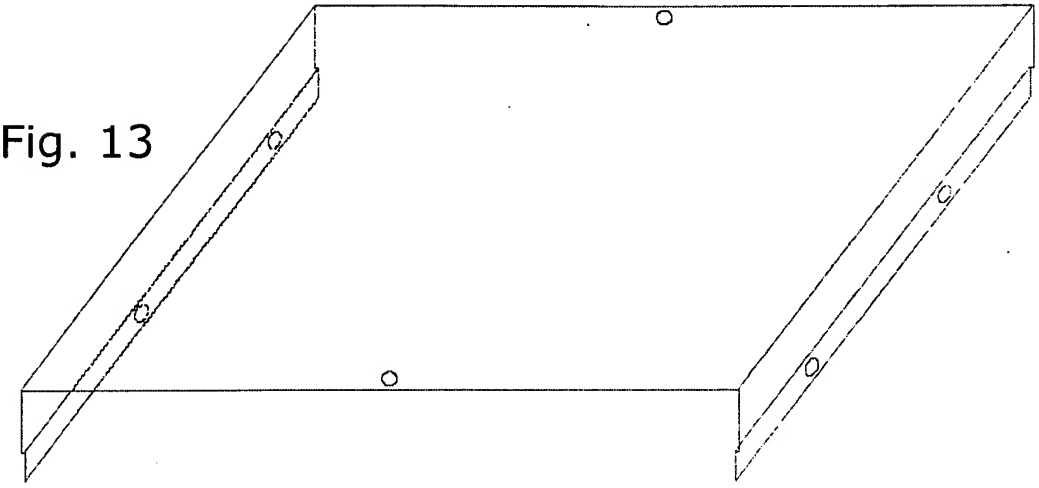
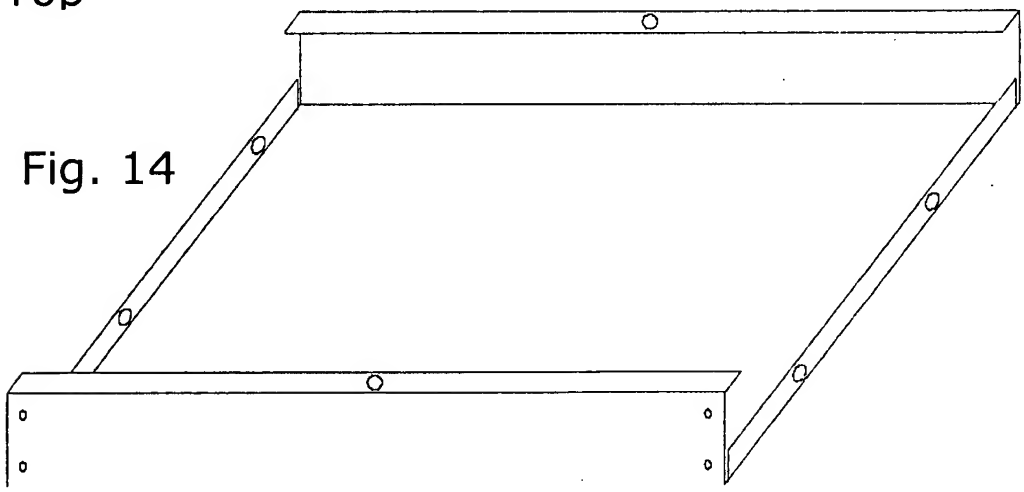

User Terminal
Network bridge
N=Network
C= Power source
40 Unit rack
N
C
PDU

Fig. 13

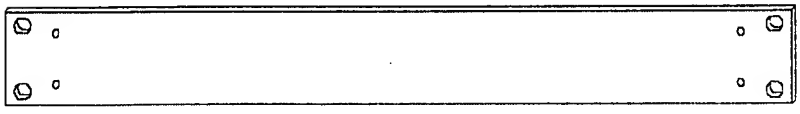


Top

Fig. 14



Bottom



Front

Fig. 15

Fig. 16

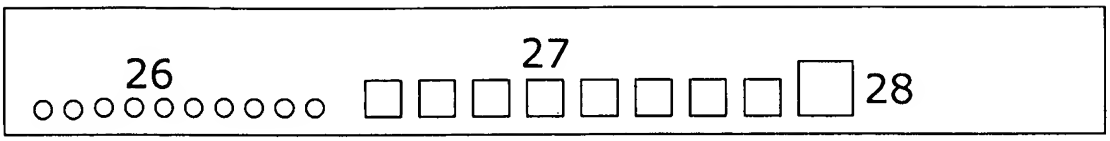


Fig. 17

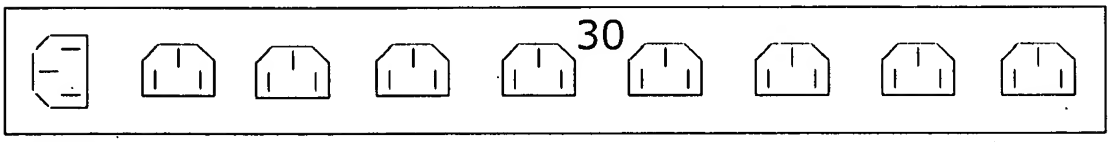


Fig. 18

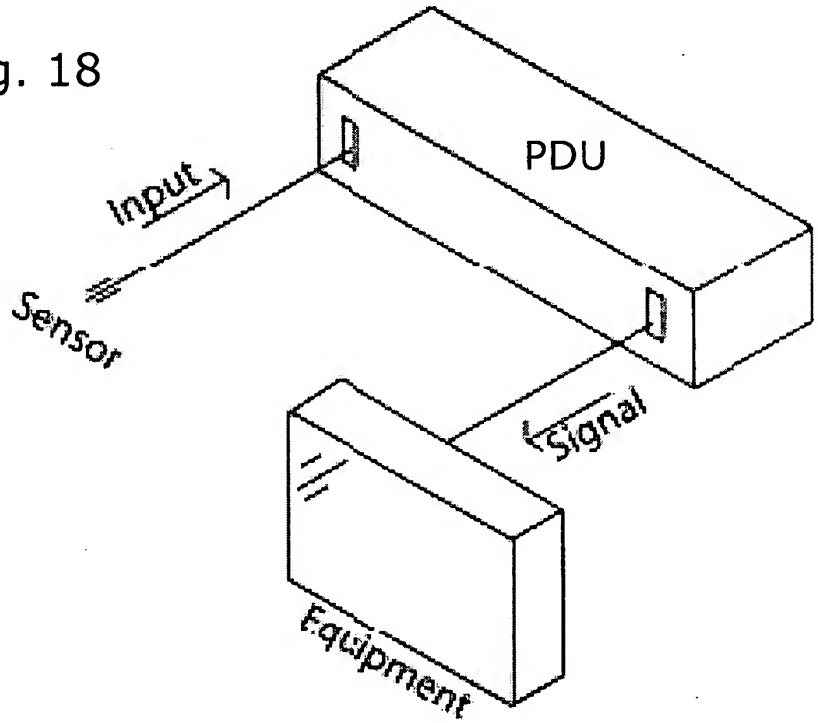


Fig. 19

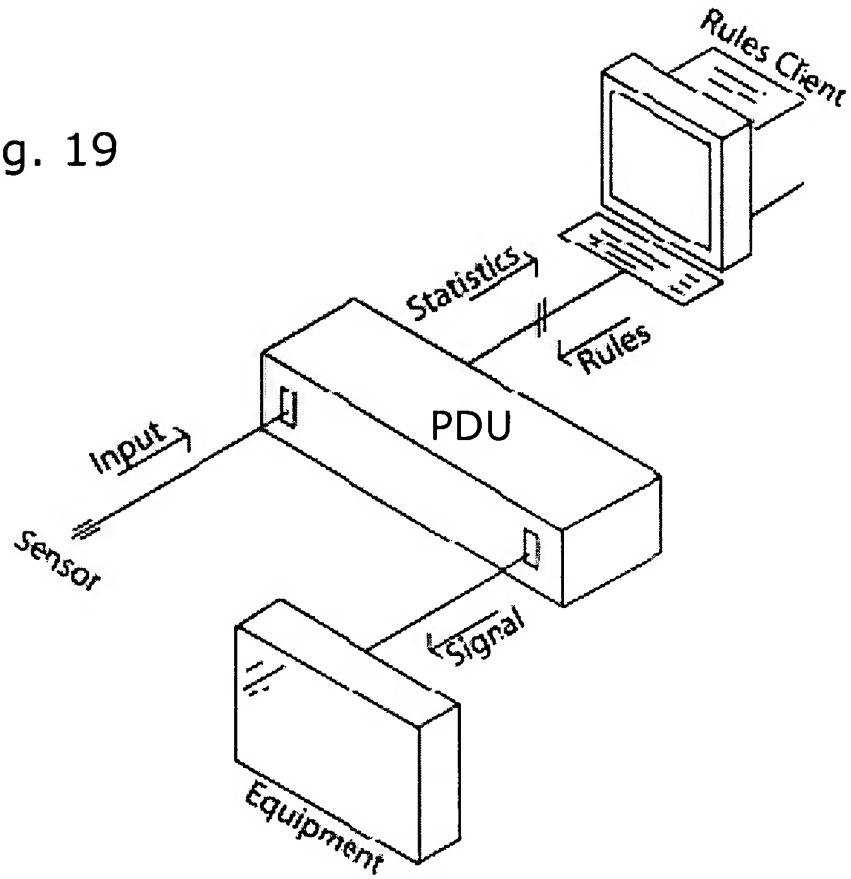

Rules Client
Statistics
Rules
PDU
Input
Sensor
Signal
Equipment

Fig. 20

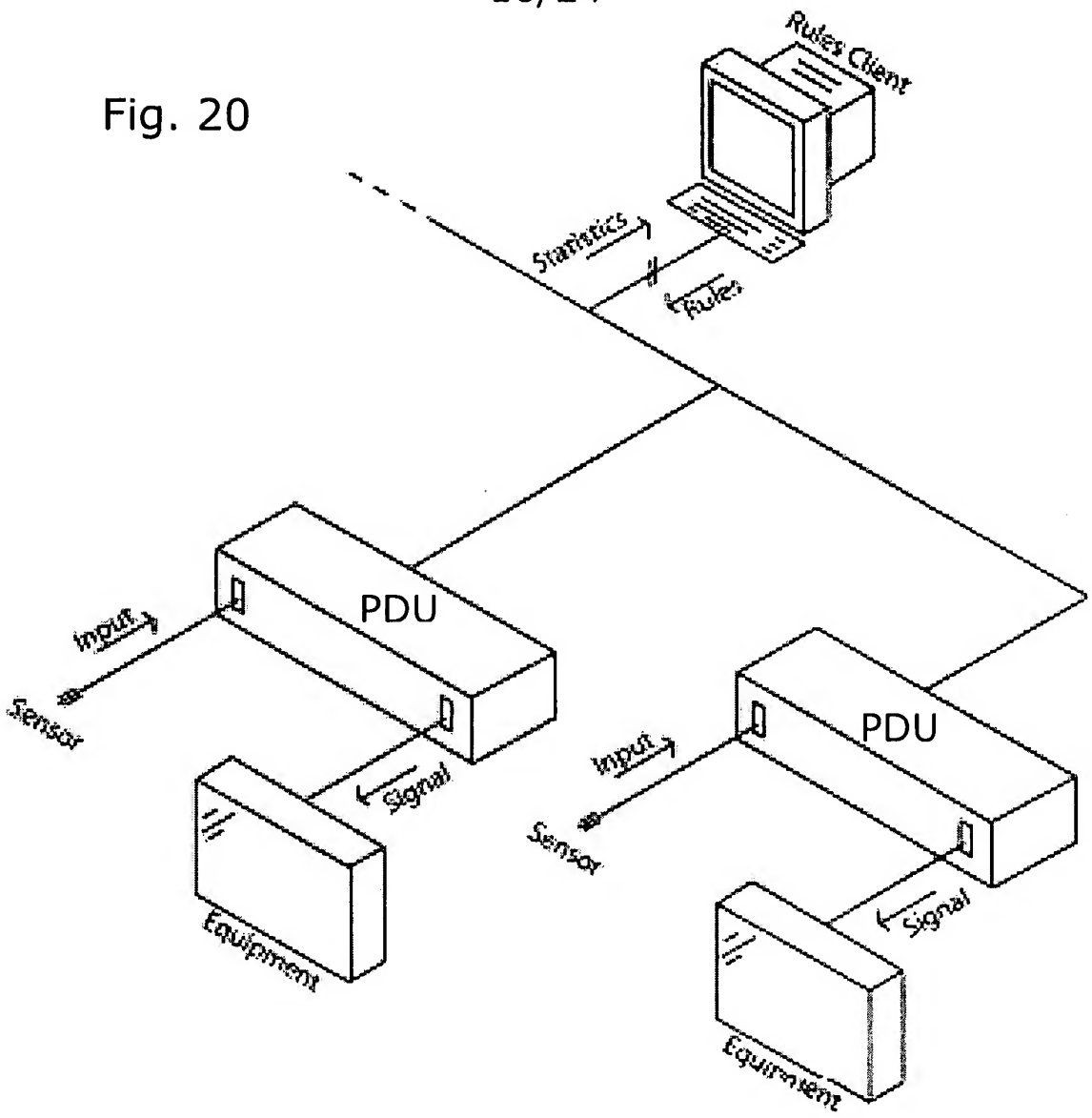

Rules Client
Statistics
Rules
PDU
Input
Sensor
Signal
Equipment
PDU
Input
Sensor
Signal
Equipment

Fig. 21

DC=Daisy Chain
E= Ethernet

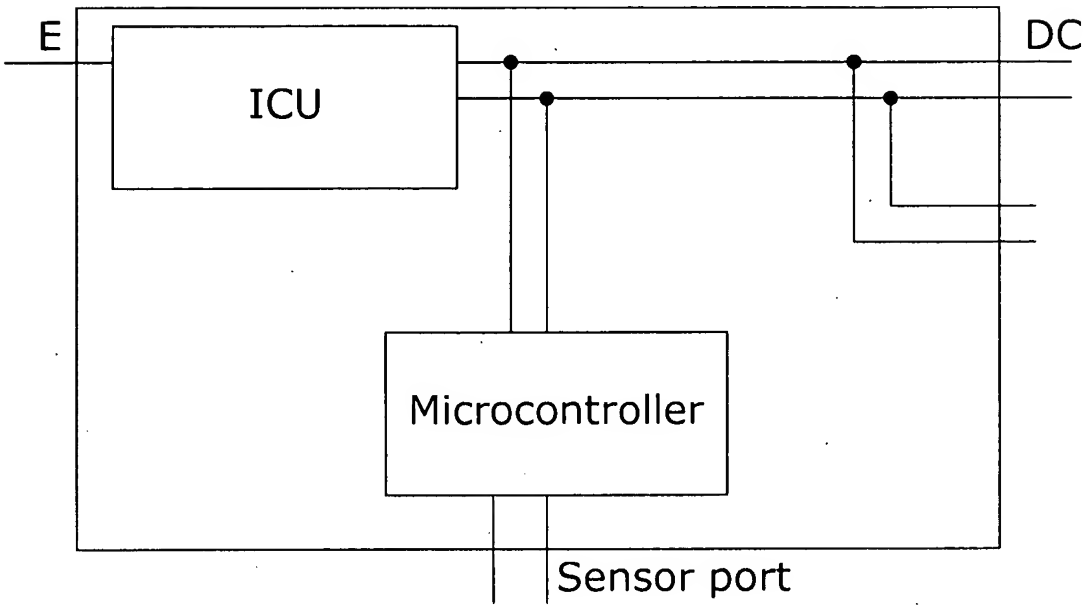


Fig. 22

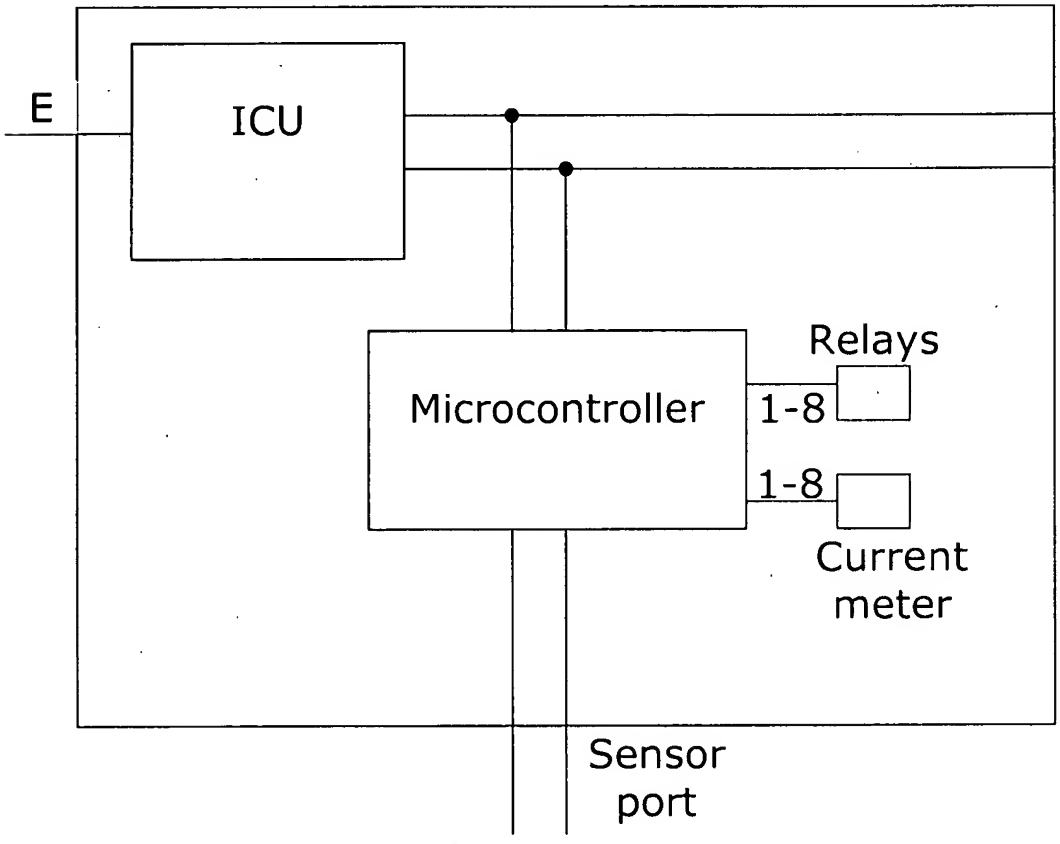


Fig. 23

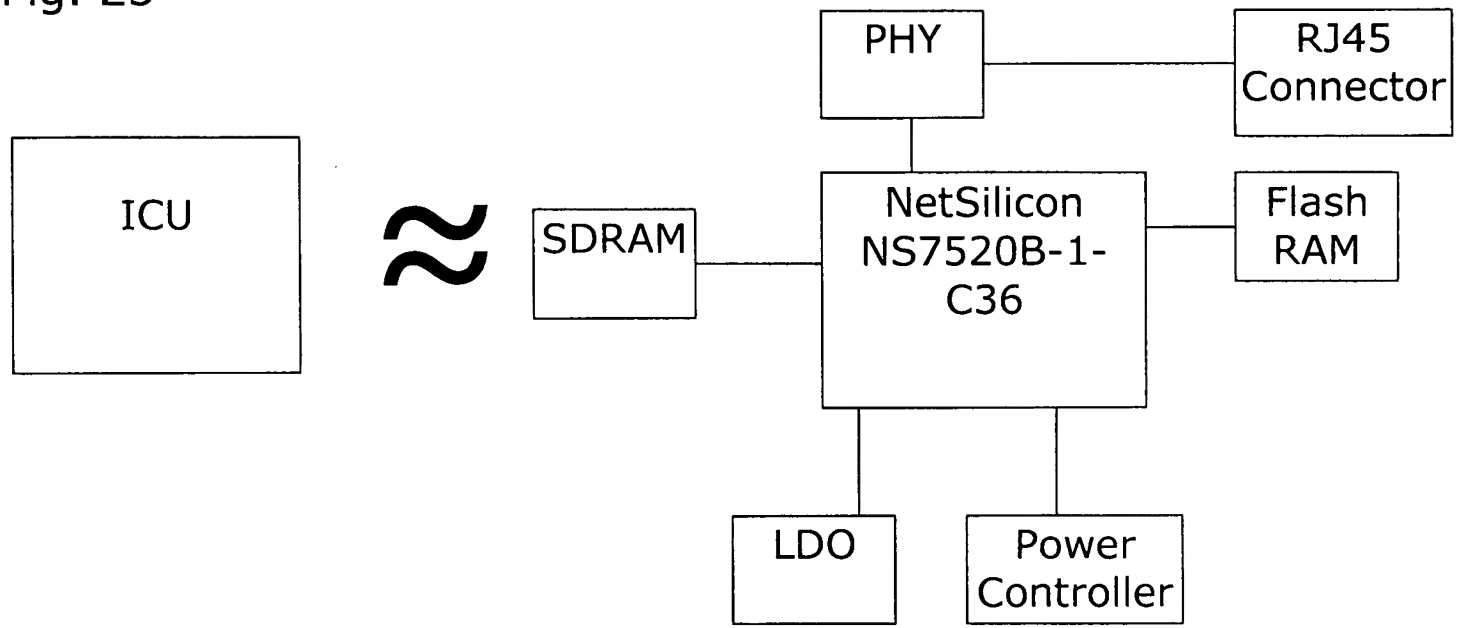

ICU
SDRAM
PHY
RJ45 Connector
NetSilicon NS7520B-1-C36
Flash RAM
LDO
Power Controller

Fig. 24

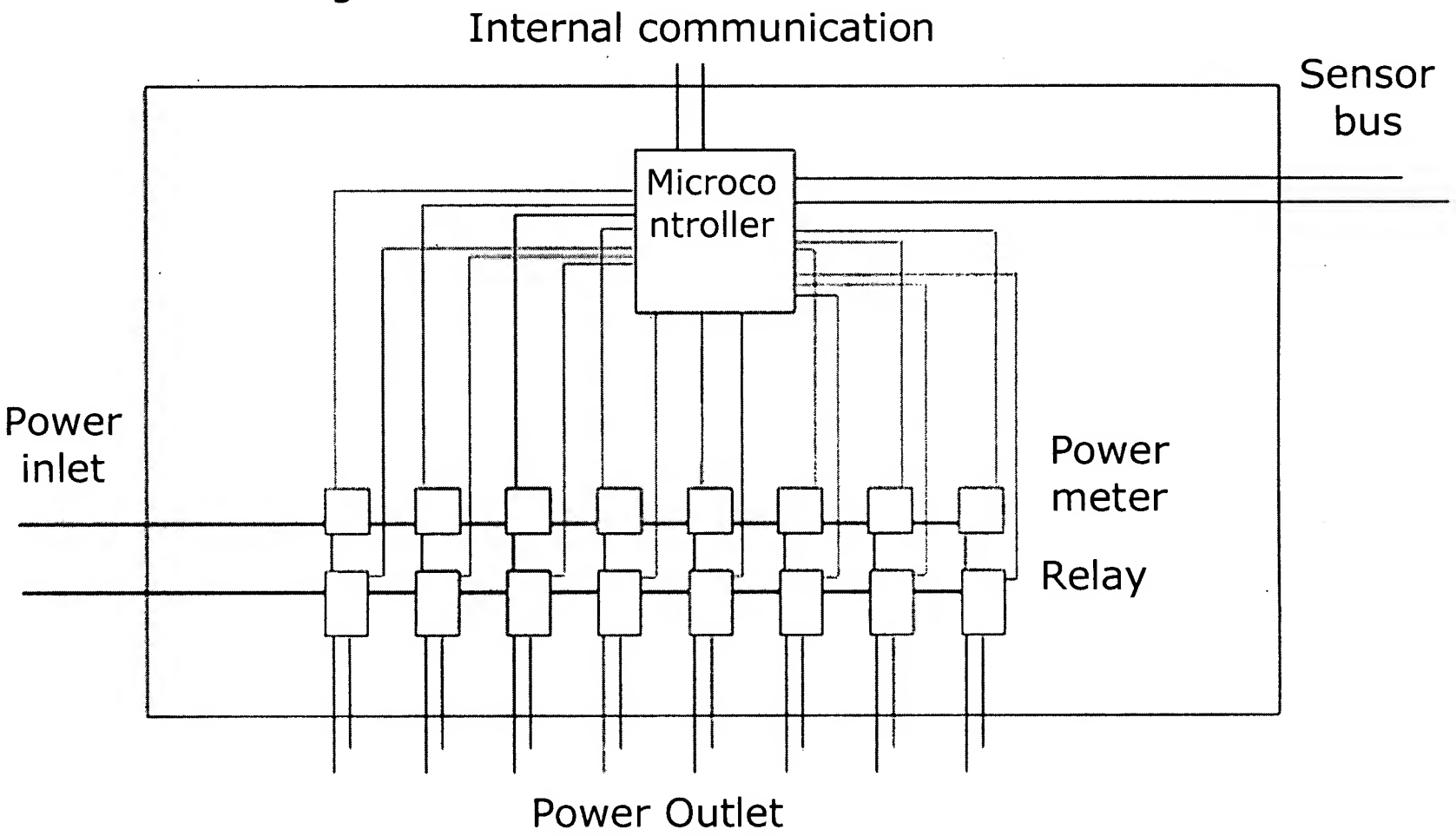

Internal communication
Sensor bus
Microco ntroller
Power inlet
Power meter
Relay
Power Outlet

Fig. 25

<table>
<tr><td colspan="2">31</td></tr>
<tr><td colspan="2">32</td></tr>
<tr><td>Outlets

34</td><td>Drag and drop column head to group</td></tr>
<tr><td rowspan="2"></td><td>IP|USE|Reboot|Subnet_mask|Gateway

33</td></tr>
<tr><td>Sensors
35</td></tr>
</table>

Fig. 26a

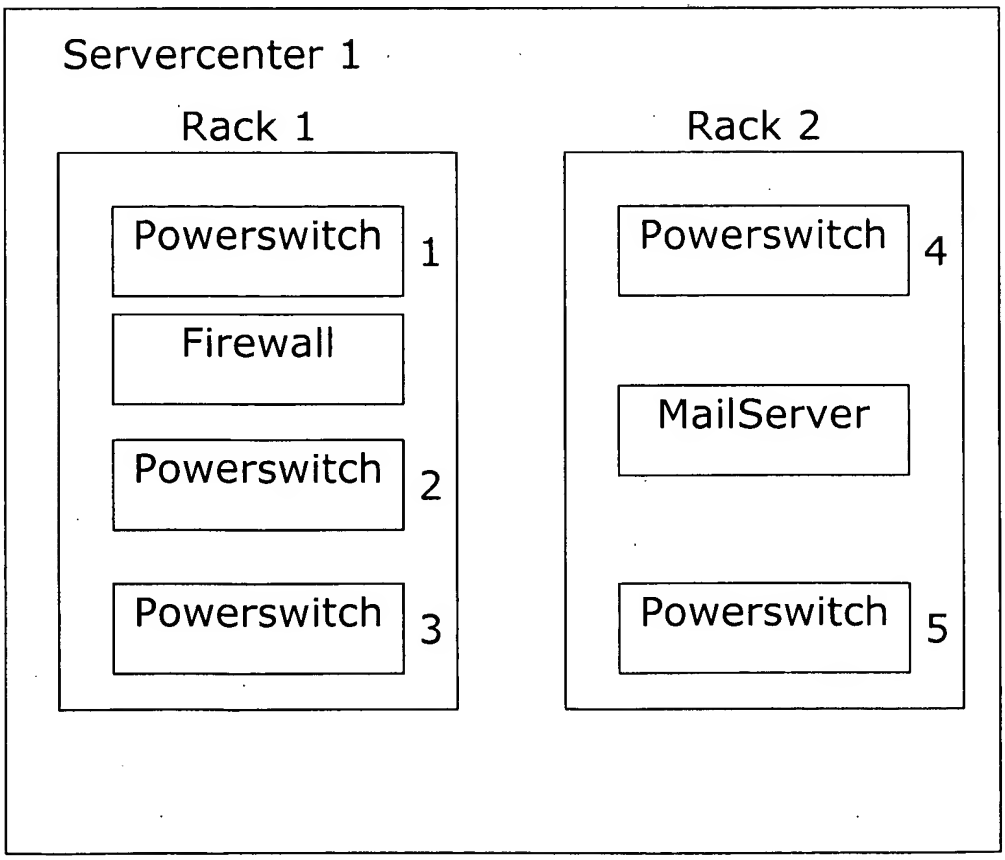


Fig. 8

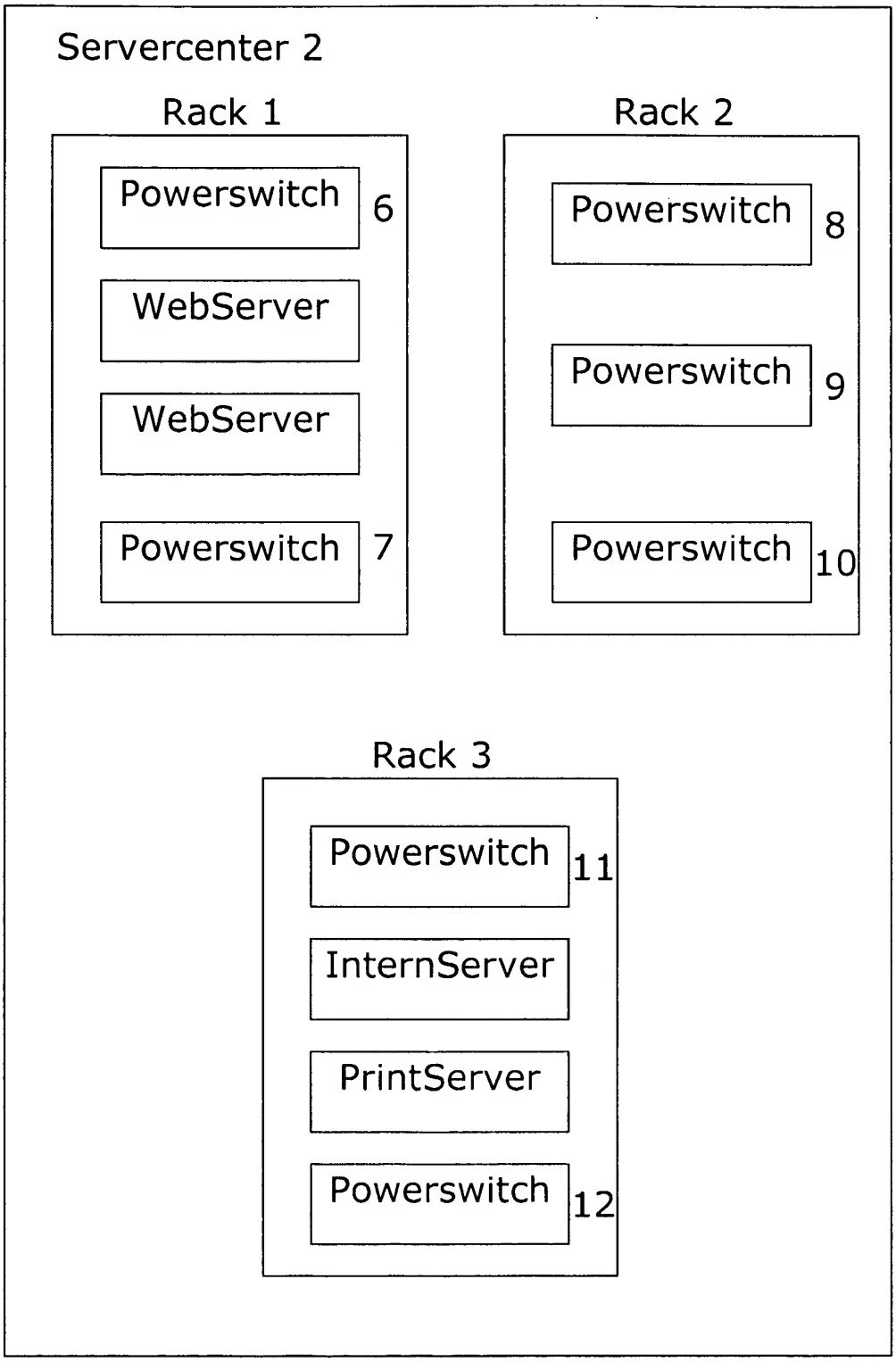

Servercenter 2
Rack 1
Powerswitch
6
WebServer
WebServer
Powerswitch
7
Rack 2
Powerswitch
8
Powerswitch
9
Powerswitch
10
Rack 3
Powerswitch
11
InternServer
PrintServer
Powerswitch
12

Fig. 26b

Fig. 27

Drag column header here to group by that column			
Servercenter	**Rack**	**Outlet**	**Powerswitch**
Servercenter 1	Rack 1	Outlet 1 - Firewall	Powerswitch 1
Servercenter 1	Rack 2	Outlet 4 - Mailserver	Powerswitch 4
Servercenter 2	Rack 1	Outlet 3 - Web server	Powerswitch 6
Servercenter 2	Rack 1	Outlet 4 - Web server	Powerswitch 6
Servercenter 2	Rack 3	Outlet 0 - Intern S	Powerswitch 11
Servercenter 2	Rack 3	Outlet 1 - Print S	Powerswitch 11

Fig. 28

Servercenter			
Servercenter	**Rack**	**Outlet**	**Powerswitch**
- Servercenter: Servercenter 1			
Servercenter 1	Rack 1	Outlet 1 - Firewall	Powerswitch 1
Servercenter 1	Rack 2	Outlet 4 - Mailserver	Powerswitch 4
- Servercenter: Servercenter 2			
Servercenter 2	Rack 1	Outlet 3 - Web server	Powerswitch 6
Servercenter 2	Rack 1	Outlet 4 - Web server	Powerswitch 6
Servercenter 2	Rack 3	Outlet 0 - Intern Serv	Powerswitch 11
Servercenter 2	Rack 3	Outlet 1 - Print server	Powerswitch 11

Fig. 29

Servercenter └──Rack			
Servercenter	**Rack**	**Outlet**	**Powerswitch**
- Servercenter: Servercenter 1			
- Rack: Rack 1			
Servercenter 1	Rack 1	Outlet 1 - Firewall	Powerswitch 1
- Rack: Rack 2			
Servercenter 1	Rack 2	Outlet 4 - Mailser	Powerswitch 4
- Servercenter: Servercenter 2			
- Rack: Rack 3			
Servercenter 2	Rack 3	Outlet 0 - InternSe	Powerswitch 11
- Rack: Rack 1			
Servercenter 2	Rack 1	Outlet 3 - Web se	Powerswitch 6
Servercenter 2	Rack 1	Outlet 4 - Web se	Powerswitch 6
- Rack: Rack 3			
Servercenter 2	Rack 3	Outlet 1 - Print se	Powerswitch 11

Fig. 30

Servercenter └──Rack └──Powerswitch			
Servercenter	**Rack**	**Outlet**	**Powerswitch**
- Servercenter: Servercenter 1			
- Rack: Rack 1			
- Powerswitch: Powerswitch 1			
Servercenter 1	Rack 1	Outlet 1 - Firewall	Powerswitch 1
- Rack: Rack 2			
- Powerswitch: Powerswitch 4			
Servercenter 1	Rack 2	Outlet 4 - Mailser	Powerswitch 4
- Servercenter: Servercenter 2			
- Rack: Rack 3			
- Powerswitch: Powerswitch 11			
Servercenter 2	Rack 3	Outlet 0 - InternSe	Powerswitch 11
- Rack: Rack 1			
- Powerswitch: Powerswitch 6			
Servercenter 2	Rack 1	Outlet 3 - Web se	Powerswitch 6
Servercenter 2	Rack 1	Outlet 4 - Web se	Powerswitch 6
- Rack: Rack 3			
- Powerswitch: Powerswitch 11			
Servercenter 2	Rack 3	Outlet 1 - Print se	Powerswitch 11

Fig. 31

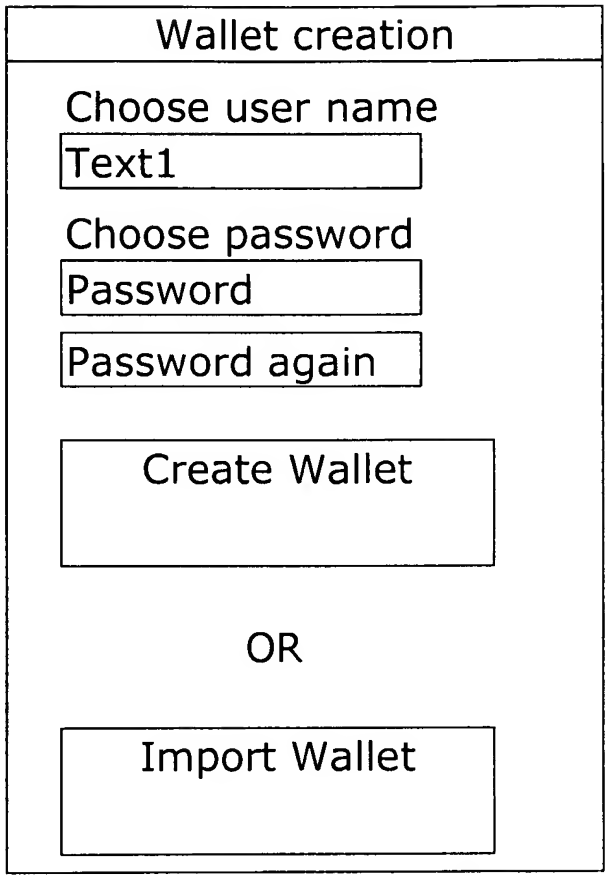

Wallet creation
Choose user name
Text1
Choose password
Password
Password again
Create Wallet
OR
Import Wallet

Fig. 32

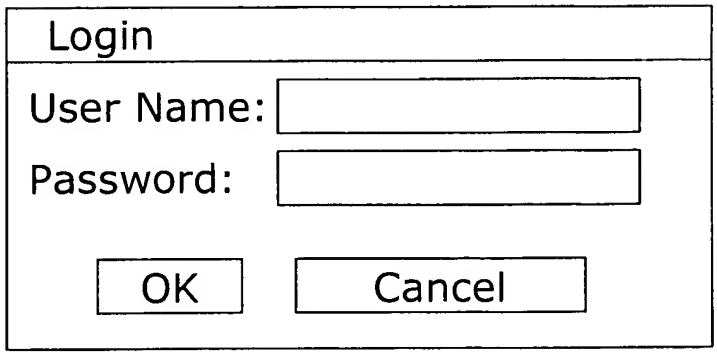

Login
User Name:
Password:
OK
Cancel

Fig. 33

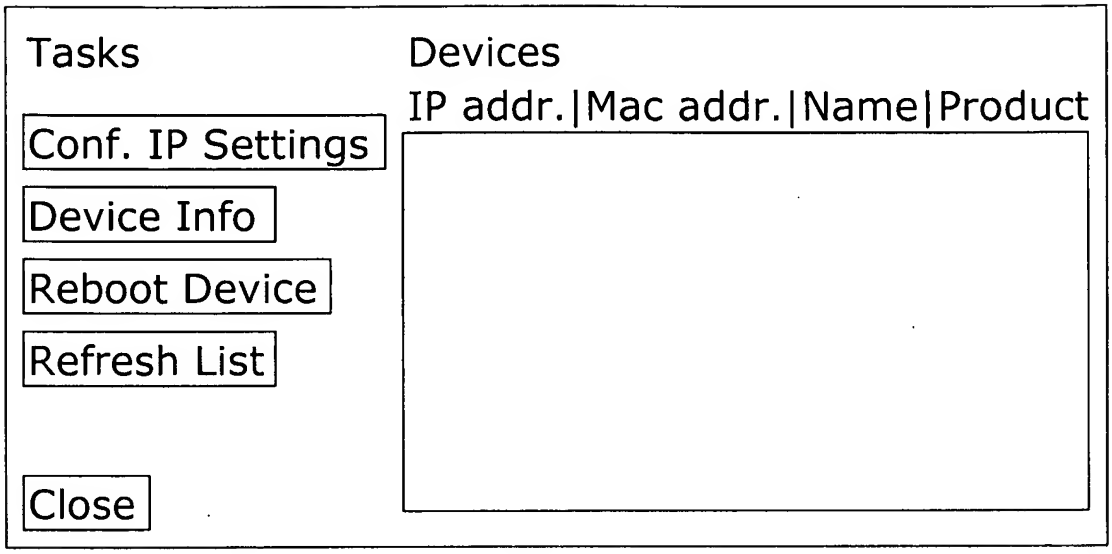

Tasks
Devices
IP addr.|Mac addr.|Name|Product
Conf. IP Settings
Device Info
Reboot Device
Refresh List
Close

Fig. 34

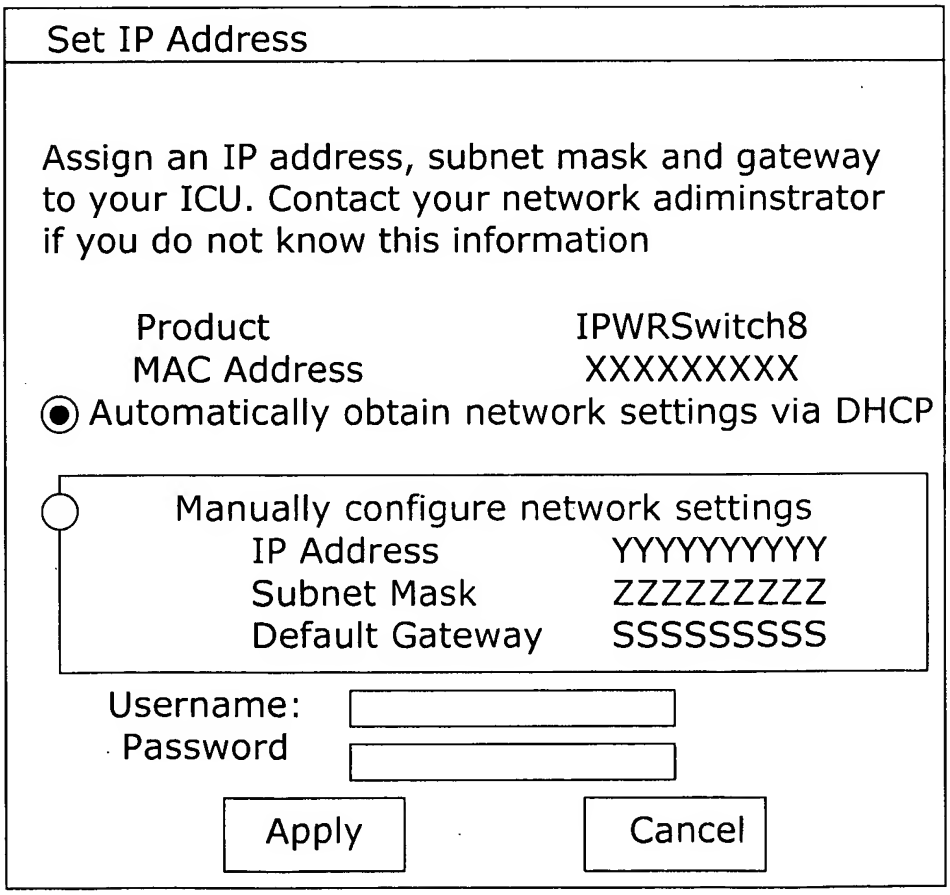
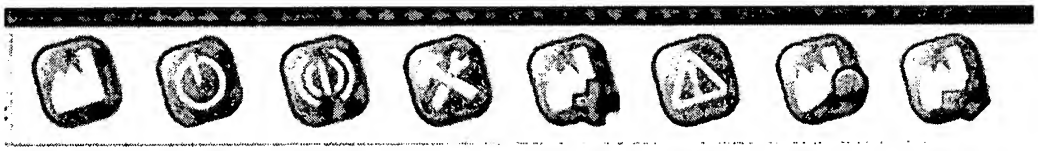

Set IP Address
Assign an IP address, subnet mask and gateway to your ICU. Contact your network adiminstrator if you do not know this information
Product IPWRSwitch8
MAC Address XXXXXXXXX
Automatically obtain network settings via DHCP
Manually configure network settings
IP Address YYYYYYYYY
Subnet Mask ZZZZZZZZZ
Default Gateway SSSSSSSSS
Username:
Password
Apply
Cancel

Fig. 35

ADDP Found	_	Wallet Found	=	Switches to install

Problems:
1 Switches not to be installed <scan> tag
2 Switches that can not be contacted

Fig. 36



Outlet

Fig. 37

#		State	Name	Usage/load
1	☑	ON	mySql Server 1	0,2
2	☑	ON	DNS Server 1	0,8
3	☐	OFF	DNS Server 2	0,8
4	☑	ON	Valhalla	0,4
5	☑	ON	THOR	0,2
6	☑	ON	PIX firewall	0,2
7	☑	ON	Switch	0,2
8	☑	ON	Cisco 7200	0,2
	☑	Action		3,0

Fig. 38

8 BIT family code	48 BIT serial number						8 BIT CRC
8 BIT	8 BIT	8 BIT	8 BIT	8 BIT	8 BIT	8 BIT	8 BIT

Fig. 39

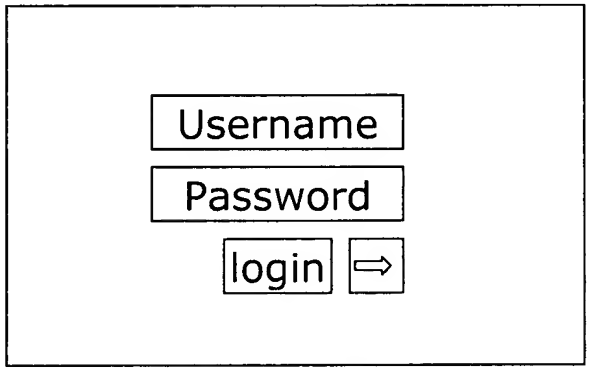


Fig. 40

Name/Location			
Outlet|Sensor|Log|Update			
Outlet			
#	State	Name	Usage/load
1	☑ ON	mySql Server 1	0,2
2	☑ ON	DNS Server 1	0,8
3	☐ OFF	DNS Server 2	0,8
4	☑ ON	Valhalla	0,4
5	☑ ON	THOR	0,2
6	☑ ON	PIX firewall	0,2
7	☑ ON	Switch	0,2
8	☑ ON	Cisco 7200	0,2
☑	Action ⇨		3,0
Warnings			
Sensor		Threshold	Value
Temperature DNS 1		32	33
Dry-contact rack		0	1
Parametere			
MAC: A0:22:55:AD:6A:FF			

Fig. 41

Name/Location	
Outlet|Sensor|Log|Update	
Sensor	Value
Temperature DNS 1	23
Temperature DNS 1	22
Temperature Mysql	22
Dry-Contact rack	0

Fig. 42

Name/Location
Outlet|Sensor|Log|Update
Action Log
Mysql power recycle
DNS 1 power ON
DNS 1 power OFF
Powersequence ON
Brownout

Fig. 43

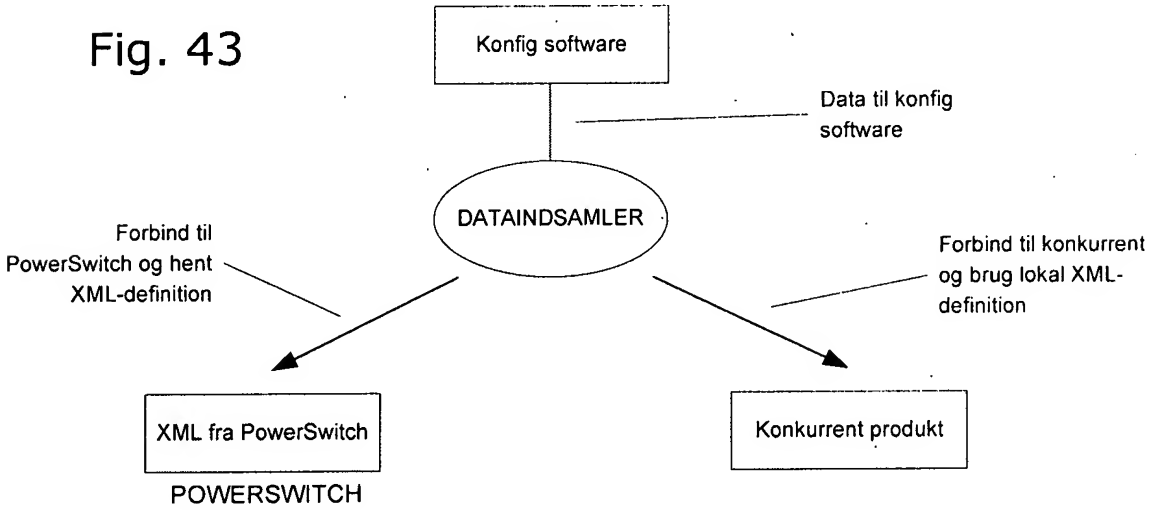


Fig. 44

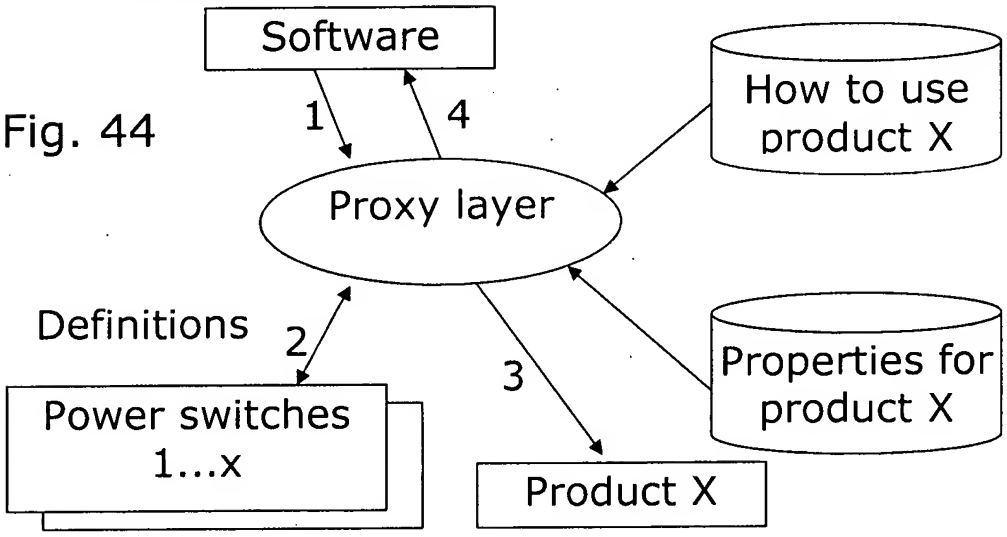
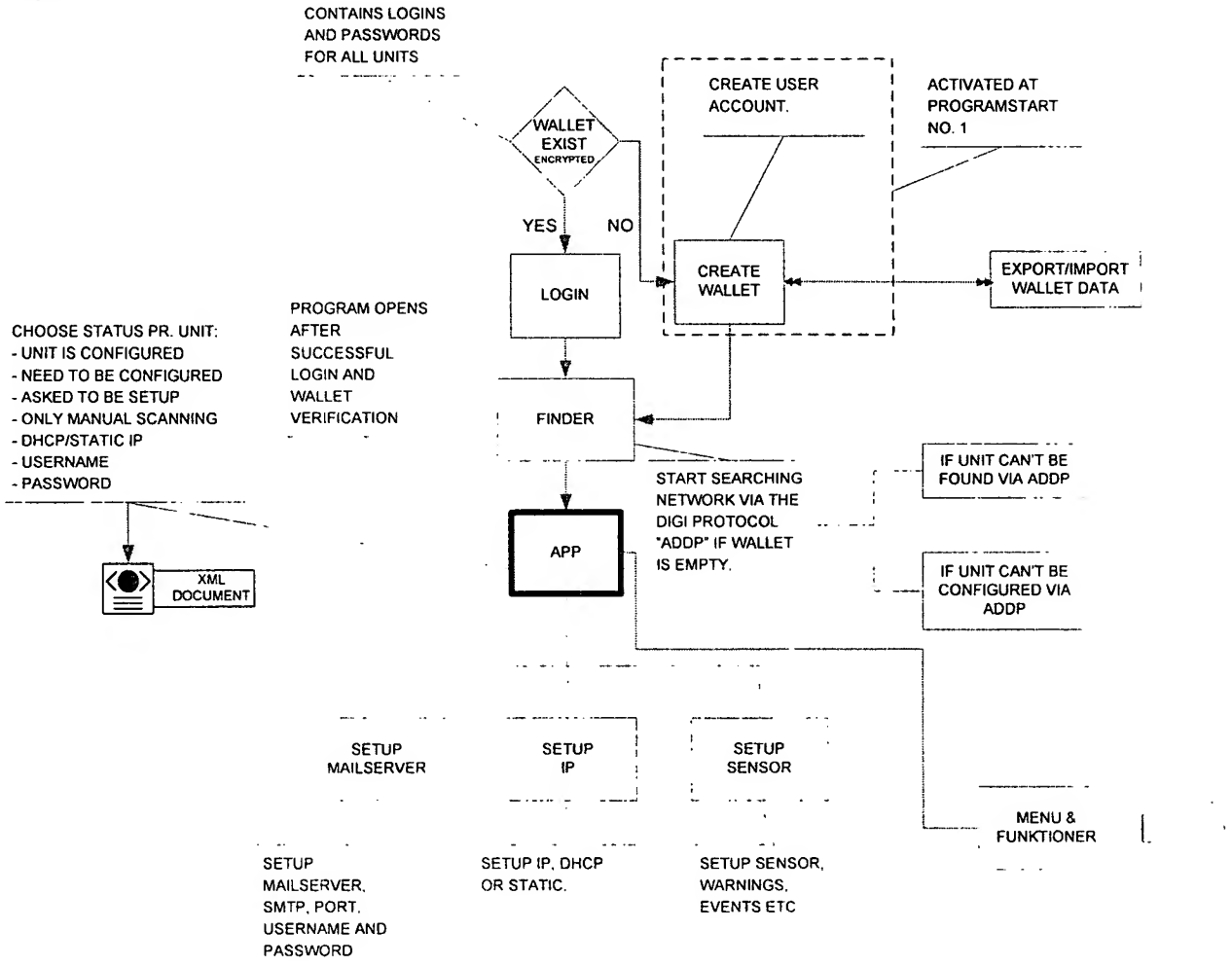


Fig. 45


CONTAINS LOGINS AND PASSWORDS FOR ALL UNITS
WALLET EXIST ENCRYPTED
YES
NO
CREATE USER ACCOUNT.
ACTIVATED AT PROGRAMSTART NO. 1
LOGIN
CREATE WALLET
EXPORT/IMPORT WALLET DATA
PROGRAM OPENS AFTER SUCCESSFUL LOGIN AND WALLET VERIFICATION
CHOOSE STATUS PR. UNIT:
- UNIT IS CONFIGURED
- NEED TO BE CONFIGURED
- ASKED TO BE SETUP
- ONLY MANUAL SCANNING
- DHCP/STATIC IP
- USERNAME
- PASSWORD
FINDER
START SEARCHING NETWORK VIA THE DIGI PROTOCOL "ADDP" IF WALLET IS EMPTY.
IF UNIT CAN'T BE FOUND VIA ADDP
IF UNIT CAN'T BE CONFIGURED VIA ADDP
APP
XML DOCUMENT
SETUP MAILSERVER
SETUP IP
SETUP SENSOR
MENU & FUNKTIONER
SETUP MAILSERVER, SMTP, PORT, USERNAME AND PASSWORD
SETUP IP, DHCP OR STATIC.
SETUP SENSOR, WARNINGS, EVENTS ETC